

**CLAIMS**

WHAT IS CLAIMED IS:

- 5           1.       A sprinkler and root feeder assembly comprising:  
            a housing defining a first chamber and a second chamber;  
            a first fluid inlet in communication with the first chamber and adapted to be connected to a  
source of pressurized fluid;  
            a first outlet adapted to be connected to a sprinkling unit and in communication with the first  
10   chamber;  
            a second fluid inlet in communication with the second chamber and adapted to be connected  
to a source of pressurized fluid; and  
            a second outlet adapted to be connected to a root feed unit and in communication with the  
second chamber.
- 15           2.       The assembly of claim 1 wherein at least one of the first chamber and the second  
chamber is adapted to receive a water soluble chemical.
3.       The assembly of claim 1 further comprising a water impregnable barrier separating the  
20   first chamber from the second chamber.
4.       The assembly of claim 2 further comprising a feed inlet in communication with the first  
chamber for passage of the water soluble chemical and adapted to be selectively sealed.
- 25           5.       The assembly of claim 4 further comprising a second feed inlet in communication with  
the second chamber for passage of the water soluble chemical and adapted to be selectively sealed.
6.       The assembly of claim 2 further comprising a feed inlet in communication with the  
second chamber for passage of the water soluble chemical and adapted to be selectively sealed.

7. The assembly of claim 1 wherein the first fluid inlet comprises a first arm member extending from the housing and having a connector for connecting to a source of pressurized fluid.

8. The assembly of claim 7 wherein the second fluid inlet comprises a second arm member  
5 extending from the housing and having a connector for connecting to a source of pressurized fluid.

9. The assembly of claim 1 wherein the second fluid inlet comprises an arm member extending from the housing and having a connector for connecting to a source of pressurized fluid.

10 10. The assembly of claim 8 wherein the first arm member extends from the housing in a direction generally opposite the direction in which the second arm member extends from the housing.

11. A sprinkler and root feeder assembly comprising:  
a housing comprising:

15 a first chamber defined by the housing and having a first inlet adapted to be connected to a source of pressurized fluid and having a first outlet; and

a second chamber defined by the housing and having a first inlet adapted to be connected to a source of pressurized fluid and having a second outlet;

20 a sprinkler unit comprising a riser tube and a sprinkler head, wherein the riser tube is connectable to the first outlet at a first end of the riser tube and connectable to the sprinkler head at a second end of the riser tube; and

a root feeder unit comprising an insertion tube connectable to the second outlet at a first end of the insertion tube and a delivery tip for delivering fluid to a root system at a second end of the insertion tube.

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12. The assembly of claim 11 wherein at least one of the first chamber and the second chamber is adapted to receive a water soluble chemical.

13. The assembly of claim 11 wherein the first inlet comprises a first arm member  
30 extending from the housing defining a first path in communication with the first chamber at one end

of the flow path and in communication with a connector for connecting to a source of pressurized fluid at another end of the first flow path.

14. The assembly of claim 13 wherein the second inlet comprises a second arm member  
5 extending from the housing defining a second flow path in communication with the second chamber at one end of the second flow path and in communication with a connector for connecting to a source of pressurized fluid at another end of the second flow path.

15. The assembly of claim 11 wherein the second inlet comprises an arm member extending  
10 from the housing defining a flow path in communication with the second chamber at one end of the flow path and in communication with a connector for connecting to a source of pressurized fluid at another end of the flow path.

16. The assembly of claim 14 wherein the first arm member extends from the housing in  
15 a direction generally opposite the direction in which the second arm member extends from the housing.

17. The assembly of claim 11 further comprising a support unit having mounting means for  
mounting the support unit to the insertion tube at substantially any point along a length of the insertion tube and a plurality of support legs, each support leg connected at an end thereof to the mounting  
20 means.

18. The assembly of claim 17 wherein the mounting means comprises a bracket having a  
ring portion configured to slidably engage the riser tube, a threaded thumb screw extendable through the ring portion for frictional engagement with the riser tube, and a plurality of extension members  
25 extending from the ring portions for connecting to an end of a support leg.

19. The assembly of claim 17 wherein the plurality of support legs comprises three support legs.

20. The assembly of claim 18 wherein the plurality of support legs comprises three support legs.

21. A sprinkler and root feeder assembly comprising:

5 a housing defining a chamber;

a fluid inlet in communication with the chamber;

a sprinkling outlet having a flow control valve moveable between an open position and a closed position, the sprinkling outlet being in communication with the chamber and adapted to be connected to a sprinkler unit; and

10 a fluid outlet having a flow control valve moveable between an open position and a closed position, the feed outlet being in communication with the chamber and adapted to be connected to a root feed unit;

wherein the chamber is adapted to receive a water soluble chemical.

15 22. The assembly of claim 21 further comprising a feed inlet in communication with the chamber for insertion of a water soluble chemical into the chamber, the feed inlet adapted to be selectively sealed.

20 23. The assembly of claim 21 wherein the fluid inlet comprises an arm member extending from the housing defining a flow path in communication with the chamber at one end and in communication with a connector for connecting to a source of pressurized fluid at another end of the flow path.